

Invenergy

**EXHIBIT K
DECOMMISSIONING PLAN ENGINEER**

Please see the following document

Decommission

Submitted 2-9-16

February 2016

UPSTREAM WIND

ANTELOPE COUNTY, NEBRASKA

Invenergy

DECOMMISSIONING REPORT

Prepared for:

Upstream Wind, LLC
c/o Invenergy LLC
One South Wacker Drive
Suite 1900
Chicago, IL 60606

Prepared by

HDR Engineering, Inc.
701 Xenia Avenue South
Minneapolis, MN 55416

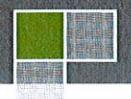


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- Figure 1: Upstream Wind Project Area and Preliminary Layout
- Figure 2: Typical Wind Turbine Generator
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- Figure 5: Estimated Decommissioning Costs / Salvage Value

UPSTREAM WIND ENERGY PROJECT

System Description

The Upstream Wind Energy Project currently anticipated to be composed of 151 wind turbine with a nominal generating capacity of 350 MW. The project occupies properties in Antelope County, Nebraska. This decommissioning report will address the proposed units and certain auxiliary components. The proposed project is anticipated to consist of the following primary components.

- Wind Turbine Generators (WTGs) GE 2.0-2.3 116 - 80 M Hub Height
 - Towers
 - Foundations
 - Crane Pads for erection
 - Collection system (LF)
 - Collection System Junction Boxes
 - Collection system Transformers
 - Access and Maintenance Roads (Miles)

Figure 1 provides the currently proposed project site area and layout.

The design of access roads, electrical transmission systems, substations, ancillary systems and underground collection service will be determined during the development of the final Upstream project system design. Quantities indicated in this report are based on the currently developed site information as provided by Upstream Wind, LLC. Developer has indicated that final designs and quantities will be provided as they are developed and as-built plans will be provided at the completion of construction.

Decommissioning Sequence

In the event the Project requires decommissioning and removal, the following sequence for removal of the components may be anticipated:

- De-energize the Project
 - Remove rotors and turbines
 - Remove towers and internals
 - Remove collection step-up transformers and junction boxes
 - Partially remove wind turbine foundations
 - Remove access roads and crane pads
 - Removes and or repurpose ancillary structures and equipment

After removal of all equipment and materials the excavated and disturbed areas are anticipated to be backfilled with appropriate materials and graded to blend with the surrounding contours.

168 tower?
350 MW?

WIND TURBINES

Wind Turbine Technical Data

The Upstream Wind Energy Project is proposing to use 151 GE 2.0-2.3 116 Wind Turbines manufactured by General Electric for a project generating capacity of approximately 350 MW. The towers are painted monopole tubular steel, white in color, with a turbine hub height of 80 meters (262 feet). The project will use 116 meter (381 feet) diameter rotors. Each turbine and highest rotor tip will reach a total height of 196 meter (453 feet) above ground surface (Figure 2).

Properly maintained wind turbines are anticipated to have a minimum life of 20 years. At the end of the project life, depending on market conditions and project viability, the wind turbines may be "re-powered" with new or refurbished nacelles, towers, and/or blades. Alternatively, the wind turbines and towers may be decommissioned, removed and the components salvaged.

The major components of each WTG assembly are anticipated to be either salvageable or reusable. It is anticipated that following de-construction that the tower sections and turbines will be transported to a marshaling yard up to 50 miles away, for further processing. Total estimated salvage or reusable materials for the major components, each WTG assembly include:

• Tower assembly (steel)	159.9	Tons
• Nacelle (Mixed materials – Estimated 10% copper)	65.3	Tons
• Rotor nose cone (steel)	33.0	Tons
• Rotor blades (fiberglass each)	12.1	Tons
• Controller	3.2	Tons

Decommissioning will require the removal and either recycling or salvaging of all "down tower" electrical cabling and switching equipment. This material is generally removed and transported with the tower components.

It is estimated that the erection cost per turbine is approximately \$99,280 in 2016 dollars. The modular design of the WTG allows for ease of construction and de-construction. Anticipated costs for de-construction are estimated to be equivalent to the construction costs.

WTG Foundations

WTG Spread Foundation Design/Decommissioning

Each turbine foundation is anticipated to be an octagonal spread footing (Fig. 3) and consists of a base with a circular pedestal. Antelope County requires each foundation to be removed to a depth of 4 feet below the final ground surface. The upper 5 feet of the turbine foundation pedestal will be removed by a jack hammer mounted on a bobcat, excavator or other similar method. The concrete, reinforcing steel and anchor bolts will be removed and the remaining void will be backfilled, compacted and graded to blend with the surrounding contours.

There is essentially little salvage value to the WTG foundations. Quantities estimated for the removal of each foundation are as follows:

• Anchor bolt salvage (steel)	3.8 Tons
• Reinforcement salvage (steel)	2.0 Tons
• Concrete	47 Cubic yards (CY)
• Compacted backfill (replacement fill)	38 CY

Wind Turbine Transformers

Wind Turbine Transformer Design/Decommissioning

Each turbine step-up transformer sits adjacent to the turbine and is approximately 6 feet high with a 6 foot by 6 foot footprint. Each transformer will be disconnected, removed from site, and disposed of according to environmental and other regulatory conditions current at the time of the decommissioning. Salvagers have indicated that they would remove the transformers as part of salvage /recycle operation. After decommissioning activities, the transformer pad areas will be scarified along with the turbine foundation.

Access Roads

Access Road Construction

A typical access road detail is included as Figure 4. It is anticipated that the final access roads to each turbine will be approximately 16 feet wide with enlarged areas at the turbine sites and at intersections with connecting public roads. The existing soils will be excavated, shaped, and graded to match the typical contour of the land adjacent to the access road and compacted prior to construction of the roads. Developer has estimated that 201,000 Linear Feet(LF) of access road will be constructed for this project.

It is anticipated that the access roads will be decommissioned, if required, by removing the base and wear surface aggregate materials and stockpiling such material off-site for further recycle or reuse as general fill. The aggregate will be replaced with topsoil and graded to blend with the existing contours. Major materials anticipated for the construction of the access roads are considered as follows

- Geotextile fabric
- Base aggregate
- Wear surface aggregate

Should the access roads be decommissioned and the materials reclaimed, it is possible that the local agencies or land owners may utilize the aggregate material without processing for maintenance of their local roads. If the roads are to be decommissioned it is anticipated that the materials will be removed and hauled to a reprocessing site within 25 miles of the Project. While damage is not anticipated, any public streets damaged due to the reclamation process will be repaired. Top soil may be required to allow finish grading of the surface to blend with the existing surfaces.

Salvage value for the road materials assumes that seventy five percent (75%) of the aggregate wear surface course can be salvaged for future use, fifty percent (50%) of the aggregate base course can be salvaged for future use and that the remaining materials would be viable for general fill in non-structural fill applications. The geotextile fabric cannot be salvaged and is would be land filled.

Crane Pads

Crane pads as required for the erection, service, and maintenance of the turbines are generally constructed and maintained, during operation. These generally will consist of 80-90 Cubic Yards of compacted native material and approximately 1 foot of aggregate. After decommissioning activities, crane pad aggregate may be removed and pad areas filled and scarified, as necessary. Restoration is expected to be performed in consultation with the landowner to near as practicable to their original condition with native seed and soils.

Cables

Cable Wire and Trench Typical Installation

Construction of underground cable systems (collection, communication and like systems) will be constructed a minimum of 48 inches below the ground surface. In all cable locations outside of access roads, the trenches are backfilled with on-site earthen materials with at least 6 inches of topsoil. At roads, the cables will be in conduits which are a minimum of 48 inches below the final surface.

Cable Wire, Junction Box, and Trench Decommissioning

Since the cables will be located well below the ground surface and will not impose an obstacle to farm activities, physical removal of the cables is not considered to be required to restore the former use of the ground except in areas where a junction box is present. It is anticipated that the removal of the junction boxes and related cable to a depth of 48 inches may be required for full decommissioning of the site.

Earthwork and Topsoil Restoration

Once all of the aboveground improvements are removed, the remaining work to complete project decommissioning will consist of shaping and grading of the surface areas to as near as practicable to their original contours prior to construction of the turbine sites and access roads. These activities are anticipated to be carried out in consultation with the landowner.

SUMMARY OF DECOMMISSION COSTS

The following is a summary of the estimated costs for project decommissioning and possible salvage values given the preliminary status of design. A further breakdown of costs is included in Figure 5. This estimate was developed using the various references listed below:

Estimated overall decommissioning costs

- Project \$24,657,880
- Estimated Salvage Value
 - Project \$14,778,624

It is estimated that the decommissioning costs exceed the salvage value of the components by an estimated \$9,879,256 or approximately \$65,426 per unit. This estimate is based on 2016 estimated costs and published values and does not assume any inflation or other market fluctuations.

Financial Assurance

To ensure accuracy in the material quantities outlined above, HDR recommends that this report and the final engineering drawings be reviewed by our office prior to operation of the Project to verify final material quantities.

For Antelope County, financial assurance in an amount sufficient to adequately perform the required decommissioning per this plan and according to all local, state, and federal environmental regulations will be secured by Upstream Wind Energy LLC. Upstream Wind Energy LLC has stipulated that they will provide financial assurance in the amount equal to the professional engineer's certified estimate of the decommissioning costs on or by the fifteenth (15th) year of operations. To the extent that the estimate of the decommissioning costs are zero (or negative), financial assurance are not anticipated be required on the part of Upstream Wind Energy LLC, provided, however that Upstream Wind Energy, LLC shall re-evaluate the need for financial assurance at least annually after the fifteenth (15th) year of operations by a qualified engineer certified in the State of Nebraska.

CONCLUSION

This report is an accurate representation of the estimated decommissioning costs and salvage values, at this preliminary stage of project development and was prepared in accordance with standards of care for engineering evaluations of this type and contains no intentional false statements or misrepresentations.

Signed: Gretchen Dolson
Gretchen Dolson, PE, Project Engineer



References

GE Energy 2012, *Technical Documentation Wind Turbine Generator System- 1&2 Platform-50 & 60 Hz; Technical Description and Data, Weights and Dimensions*

USGS Mineral Industry Surveys Iron and Steel Scrap; September 2015

USGS Mineral Industry Surveys Copper; September 2015

Scrap Metal Prices as of January 4, 2016; scrapregister.com/scrap-prices/united-states/

R.S. Means Construction Cost Estimating; 2016

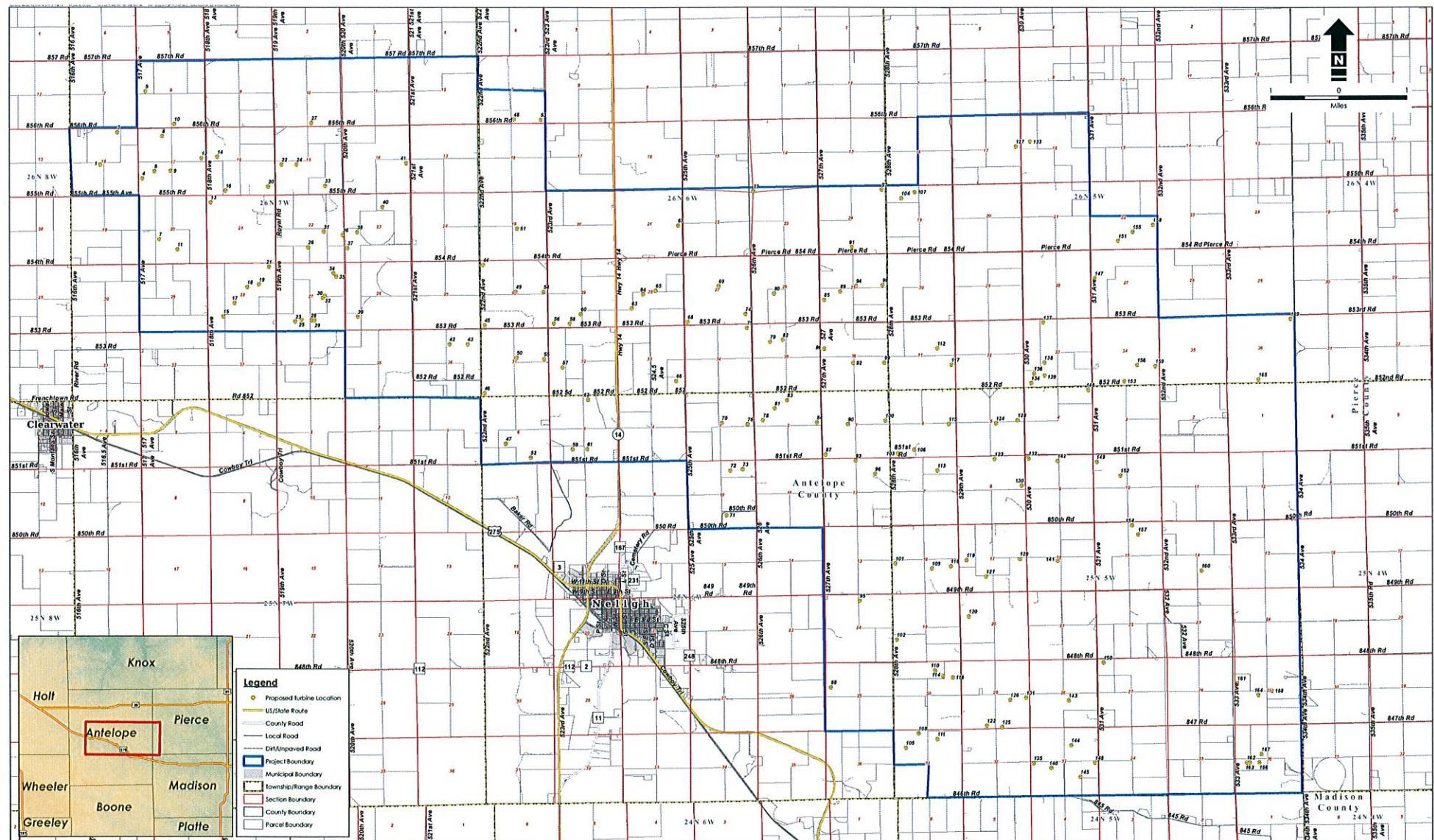


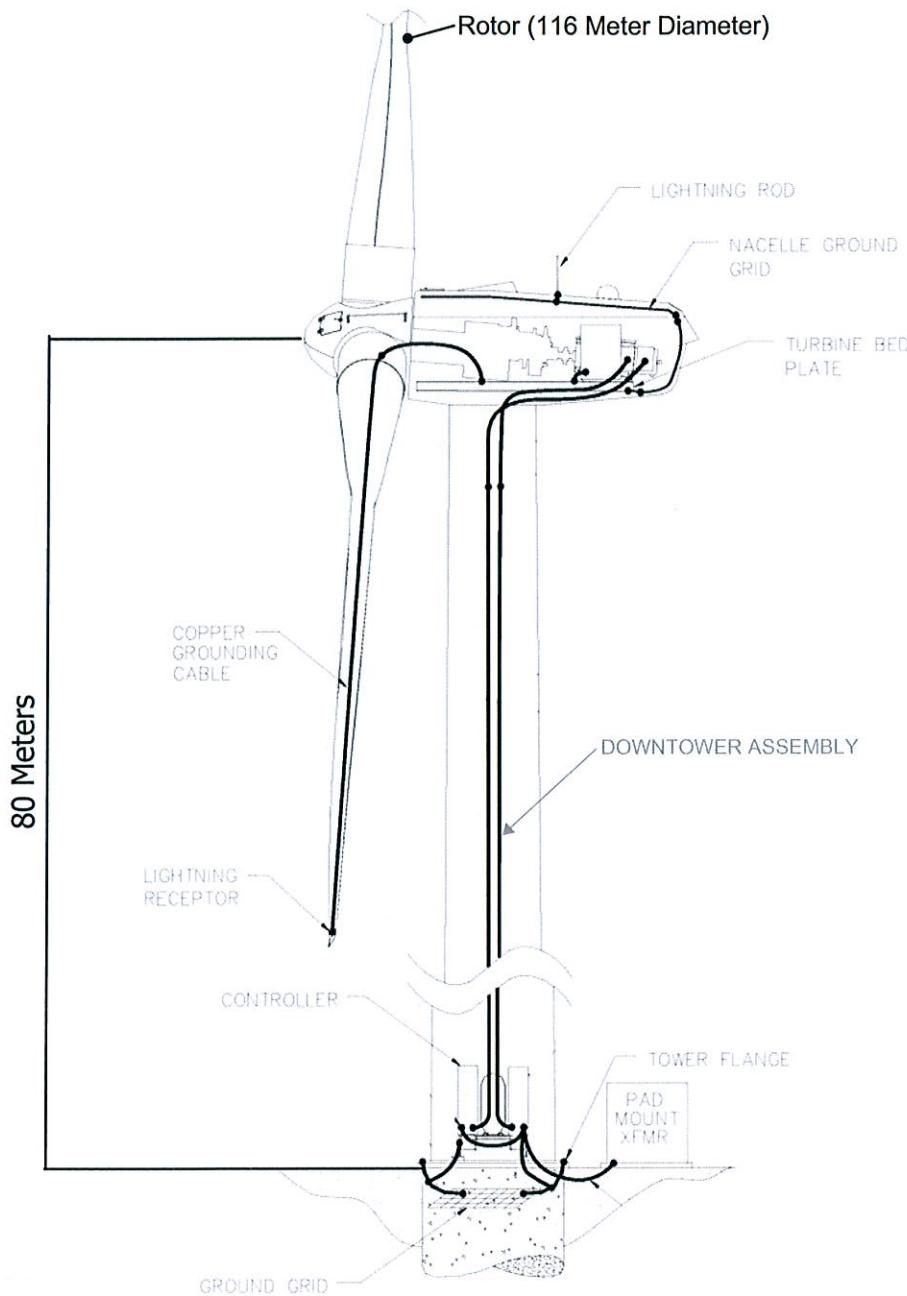
Figure 1 - Project Area and Preliminary Layout

Upstream Wind Energy Project, Antelope and Pierce Counties, Nebraska

Rev. 01
December 14, 2015

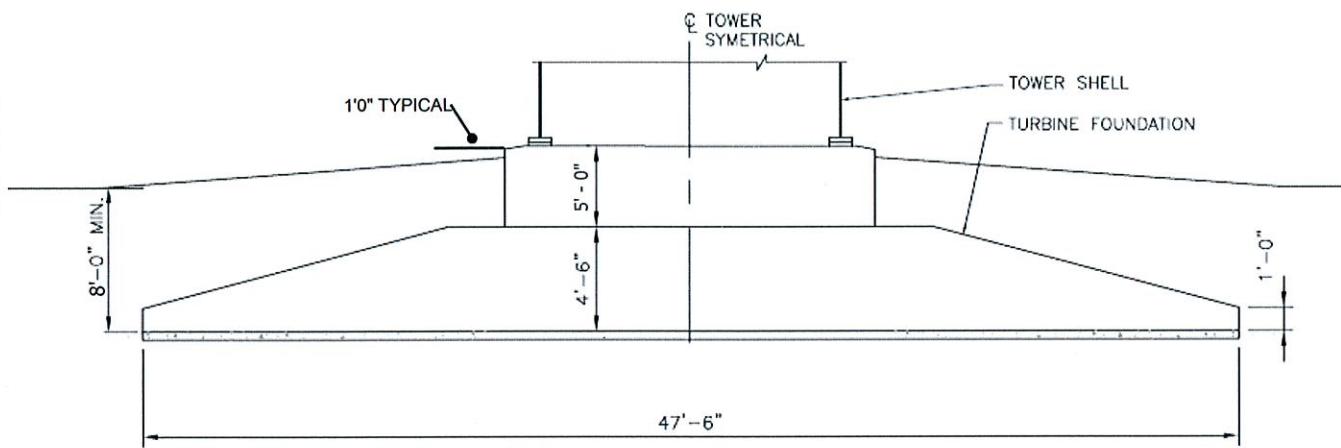
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One South Wacker Drive Suite 1800
Chicago, Illinois 60606
(312) 224-1400

FIGURE 2
UPSTREAM WIND LLC
TYPICAL WIND TURBINE GENERATOR



Note: Reference Image from Technical Documentation,
Wind Turbine Generator Systems, GE 1.5 MW 60 Hz.

FIGURE 3
UPSTREAM WIND LLC
TYPICAL FOUNDATION SECTION

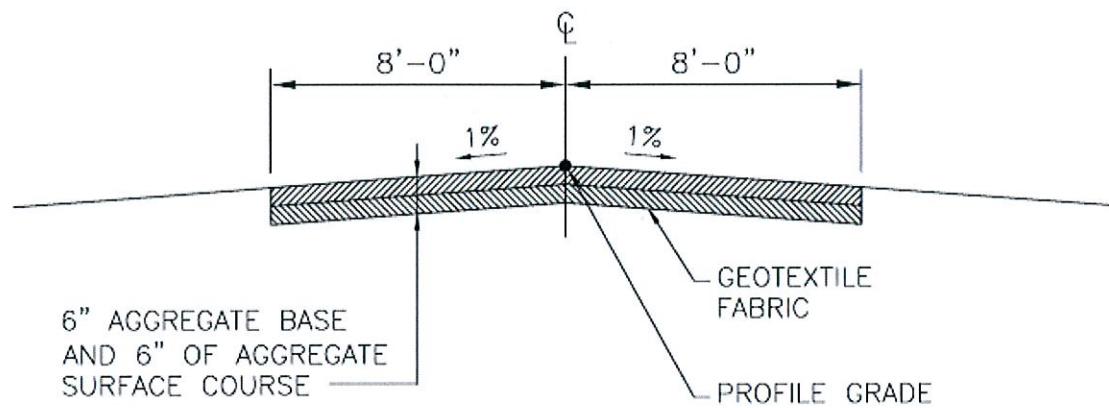


TYPICAL FOUNDATION SECTION

SCALE: NONE

1
SK-1

FIGURE 4
UPSTREAM WIND LLC
TYPICAL ACCESS ROAD SECTION



TYPICAL ACCESS ROAD – SECTION A

SCALE: NONE

1
SK-2

Figure 5 – Estimated Decommission Cost / Salvage Value

Estimated Decommissioning (Deconstruction) Cost						
Item	Description	Unit	Est. Quantity	Est. Unit Cost	Cost	Remarks
1	Mobilization/Demobilization	LS	1	\$ 450,000.00	\$ 450,000	Single mobilization; Large Crane; Contractor Admin
2	Turbine De-Construct	Each	151	\$ 99,280.00	\$ 14,991,280	Estimated on Possible Crew Size and Time required
3	Transformer- Disconnect /Remove	Each	151	\$ 800.00	\$ 120,800	Electrician Disconnect; Removed by Recycler
4	Downtower Assemblies	LS	151	\$ -	\$ -	Disconnect; Load and Haul- Included with Tower Removal
5	Turbine Pedestal-Demolish / Remove	CY	7,097	\$ 250.00	\$ 1,774,250	Demolished; Loaded & hauled to repurpose off site
6	Remove - Cable; Grounding to 4 Ft below grade	LS	-	\$ -	\$ -	Included with Transformer removal
7	Backfill; Compact; Finsh- excavated area	CY	5,738	\$ 7.75	\$ 44,470	Backfill w/ recovered aggregate
8	Remove; Recover-Access road & turbine area aggregate	CY	370,923	\$ 10.60	\$ 3,931,784	Excavate and remove to central location
9	Remove; Landfill Road & Turbine surface fabric	SY	357,333	\$ 0.35	\$ 125,067	Landfill -estimated 1.13 lb/SY
10	Topsoil; Spread; grade Road & Turbine area	CY	66,267	\$ 29.67	\$ 1,961,142	Supply, Spread and Grade
11	Blade Remove; Landfill	Ton	5,481	\$ 61.00	\$ 334,359	Removal included with deconstruct-Special waste landfill cost est.
12	Transport Materials	Ton	40,552	\$ 22.68	\$ 919,729	Materials to Marshalling yard
Subtotal					\$ 24,657,880	

Item	Description	Estimated Material Salvage Value						Remarks
		Value Basis	Quantity Units	Est. Quantity	Est. Unit	Value ¹	Recovered	
1	Tower: Steel	Ton	151	159.94	\$	235.99	100%	\$ 5,699,379 GE Document
2	Nacelle; bedplate & Misc. Steel	Ton	151	65.29	\$	235.99	80%	\$ 1,861,260 GE Document
3	Nacelle/ Tower Copper (Estimated)	Ton	151	6.5	\$	1,080.00	100%	\$ 1,064,749 Estimated at 10% of the total Nacelle weight
4	Hub; Nose Cone Assembly Steel	Ton	151	33.0	\$	235.99	100%	\$ 1,175,938 GE Document
5	Anchor Bolts/Reinforcement	Ton	151	3.8	\$	235.99	100%	\$ 135,411 Recovered from pedestal demolition
6	Down Tower Cable and Fittings	Lbs	151	670	\$	1.65	80%	\$ 133,544
7	Down Tower Controller/Converter	Ton	151	3.2	\$	460.00	80%	\$ 177,818 Based on published rate Electronic Scrap
8	Base transformer (small Transformer)	Lb.	151	12,000	\$	0.28	100%	\$ 507,360 Base of tower step up to 34.5 kV
9	Junction Box	Lb.	40	300	\$	0.37	100%	\$ 4,440 Estimate scrap value
10	Grounding and Cable	Lb.	151	64	\$	1.65	80%	\$ 12,756 Medium Voltage Cable & Ground.
11	Aggregate recovery	CY	1	370,923	\$	14.40	75%	\$ 4,005,968 Processed value (Roadsurface, base & crane pads)
								Subtotal \$ 14,778,624

1. Scrap Steel value based on 2015 Annual average: USGS Mineral Industry Surveys



December 16, 2015

Ms. Emily Kobyanczak
Invenergy, LLC
2580 West Main Street
Littleton CO 80127

Dear Ms. Kobyanczak,

In regard to your recent request for engineering services, HDR will be pleased provide engineering services for the preparation of a decommissioning report for your proposed Upstream wind farm development.

We understand that the project has not been fully developed at this time. The project as currently conceived is anticipated to generate up to 350 MEe with an estimated 168 GE wind turbines of various sizes.

Fully developed layouts and equipment selections are anticipated around the end of the first quarter of 2016. Please notify us when the development is sufficiently far along to understand the full scope and quantities involved.

HDR will provide the services on an appropriately developed task order basis.

Thank you for your continued interest in working with HDR.

Sincerely,
HDR Engineering, Inc.

A handwritten signature in black ink that reads "James W. Booty".

James W. Booty, PE

Invenergy

Upstream Wind Energy LLC
2580 W. Main St. Suite 200
Littleton, CO 80120

April 12th, 2016

Ms. Liz Doerr, Zoning Administrator
Antelope County
501 Main Street
PO Box 26
Neligh, NE 68756

Re: CUP Application of Upstream Wind Energy, LLC

Dear Ms. Doerr:

This is to confirm that with respect to its application for a conditional use permit under Article 15 of the county's zoning regulations, Upstream Wind Energy, LLC agrees that prior to construction of any individual Tower/Wind Turbine (as defined in Article 15), Upstream will provide the Antelope County Zoning Administrator a Determination of No Hazard issued by the Federal Aviation Administration (FAA) for each individual Tower/Wind Turbine at its final turbine location. In addition, Upstream will work with the County to ensure the Project complies with any standard or requirements for height structures as they may apply to any Project Tower/Wind Turbines proposed to be located within the flight instrument approach zone as contemplated by Section 3-301(5)(a)(i) of the Nebraska Airport Zoning Act. To the extent any of the Towers/Wind Turbines do not comply with requirements set forth by the FAA or Section 3-301(5)(a)(i) of the Nebraska Airport Zoning Act, such Tower/Wind Turbine will not be constructed and will not be considered part of this proposed Wind Energy Conversion System.

We understand this will also be a condition to the conditional use permit for the Project, as was recommended by the Planning Commission on February 24, 2016.

Please let us know if you have any questions. Thank you.

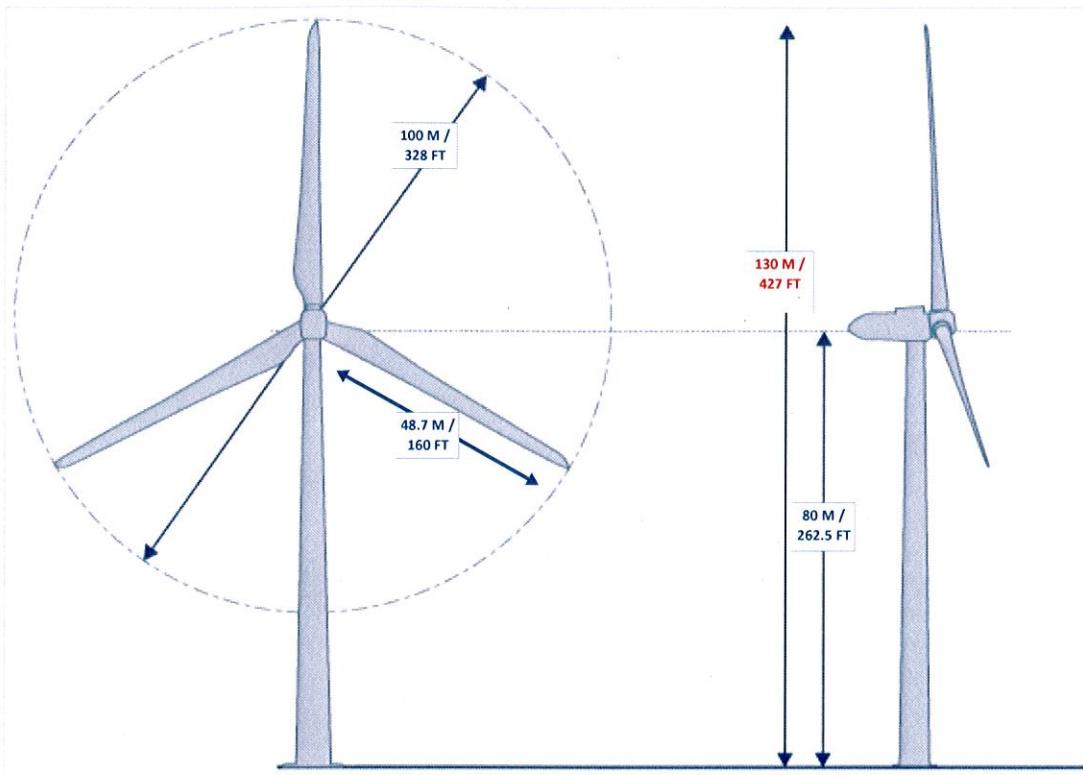
Very truly yours,


Cindy Kobylanyuk
Upstream Wind Energy, LLC

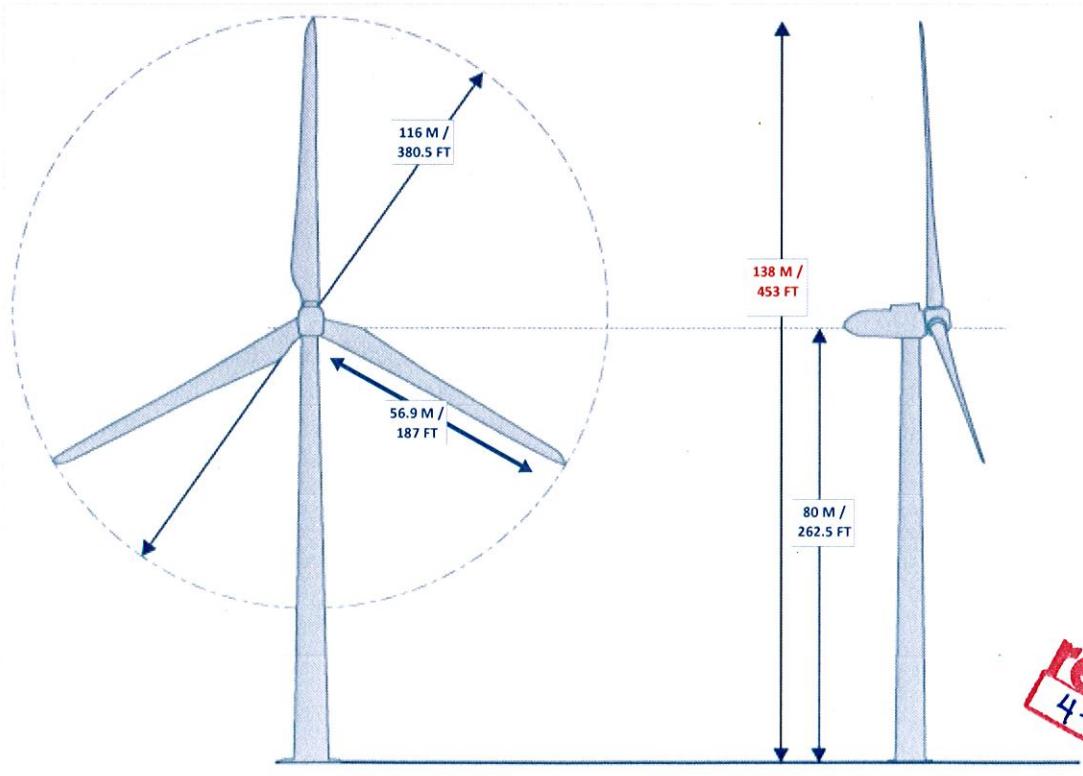


Submitted after
2-24-16 PL mtg.

GE 1.7 MW, 100M



GE 2.0-2.3MW, 116M



Received
4-12-14

Exhibit B Project Landowner Team

APN	OWNER	LEGAL
000349000	ADAMS,AUDREY B	19-25-5 S 130 AC OF SW1/4 129.44 AC ELM TOWNSHIP TD 24~ 13-25-6 NE4 158.20 AC NELIGH TWSP TD 62~
000454900	ADAMS,AUDREY B	17-25-5 SE4 EXC NW4SE4 118.76 AC ELM TWSP TD 29~
000348000	ADAMS,TEDD	17-25-5 W1/2NW1/4 & N 620' NW1/4SW1/4 99 AC ELM TOWNSHIP TD 29~
000348100	ADAMS,TEDD	17-25-5 E1/2NW1/4; NE1/4SW1/4; & NW1/4SE1/4 160 AC ELM TOWNSHIP TD 29~
000347900	ADAMS,TEDD R	18-25-5 NE1/4 160 AC ELM TOWNSHIP TD 29~
000348200	ADAMS,TEDD R	18-25-5 SW4 155.50 AC ELM TWSP TD 24~
000348500	ADAMS,TEDD R	3-25-6 TRACT A IN NW4 & N2SW4 126.98 AC NELIGH TWSP TD 68~
000449700	ADAMS,TEDD R	3-25-6 TRACT B IN SW4 106.98 AC NELIGH TWSP TD 68~
000449800	ADAMS,TEDD R	4-25-6 NE4 157.63 AC NELIGH TWSP TD 62~
000449900	ADAMS,TEDD R	4-25-6 SE4 EXC IR TR SE COR & EXC IR TR SW COR 145.53 AC NELIGH TWSP TD 62~
000450200	ADAMS,TEDD R	33-26-6 SW4SE4 38.40 AC CUSTER TWSP TD 72~
000492601	ADAMS,TEDD R	19-25-5 NE4 159.08 AC ELM TWSP TD 24~
000348600	ANCHUSTEGUI,JANE ELIZABETH HATFIELD	24-25-6 E2SE4 78.66 AC NELIGH TWSP TD 62~
000470600	ANCHUSTEGUI,JANE ELIZABETH HATFIELD	1-25-6 TR NE4NE4 1.08 AC NELIGH TWSP TD 68~
000448600	ANTELOPE COUNTY	3-25-6 SE4 159.86 AC NELIGH TWSP TD 62~
000449500	BALTIC AMERICAN LAND COMPANY	3-25-6 TRACT E2SW4 38.06 AC NELIGH TWSP TD 68~
000449600	BALTIC AMERICAN LAND COMPANY	10-25-6 N2NE4 80 AC NELIGH TWSP TD 62~
000453600	BALTIC AMERICAN LAND COMPANY	30-25-5 TR 10 X 48 RODS NE4SW4 3 AC ELM TWSP TD 24~
000354701	BARTOS,LUANN & KENNETH J	30-25-5 SE1/4 160 AC ELM TWSP~
000354800	BARTOS,LUANN & KENNETH J	31-25-5 TRACT N2NE4 5 AC ELM TOWNSHIP TD 33~
000355100	BARTOS,LUANN & KENNETH J	21-26-6 ALL -HWY ON W SIDE- 5 AC TR 218'X1000'SW4SE4-SW4SE4 6.28AC-SW CORNERSW4; 616.94 AC CUSTER TWSP TD 69~616.94~
000487500	BENNETT TURKEY FARMS INC	29-26-6 N2NE4 EXC 1.53 AC HWY 78.58 AC CUSTER TWSP TD 69~
000490500	BENNETT TURKEY FARMS INC	10-26-7 NE4 157.75 AC BLAINE TWSP
000581400	BENNETT, FREDA	6-25-6 N2SE4SE4NE4 & S 50' NE4SE4NE4 5.94 AC NELIGH TWSP
000451500	BENTLEY, ALLAN	20-26-6 W2NW4 80 AC CUSTER TWSP
000487300	BENTLEY, JANET	6-25-6 NE4EXC N2SE4SE4NE4 & EXC S 50' NE4SE4NE4 149.24 AC NELIGH TWSP TD 62~
000451500	BENTLEY, ALAN & LYNDY KESTER	5-25-6 NE1/4 EXC 73.3 AC IRREG TR IN EAST 77.76 AC NELIGH TWSP TD 62~
000450500	BENTLEY, ALLAN	5-25-6 NW4 154.63 AC NELIGH TWSP TD 62~
000450700	BENTLEY, ALLAN	5-25-6 N2SW4 EXC TRI TRACT SW CORNER 73.55 AC NELIGH TWSP TD 62~
000451200	BENTLEY, ALLAN	31-26-6 W2 315.61 AC CUSTER TWSP TD 69~
000491600	BENTLEY, JANET	6-25-6 NE4SW4; SE4 202.87 AC NELIGH TWSP TD 62~
000451700	BENTLEY, JANET R	7-26-6 SW4-TR 157.07 AC CUSTER TWSP
000483202	BENTLEY, JANET R	18-26-6 SE4 157.57 AC CUSTER TWSP TD 69~
000486700	BENTLEY, JANET R	31-26-6 NE4 159.14 AC CUSTER TWSP TD 69~
000491500	BENTLEY, JANET R	31-26-6 SE4 159.73 AC CUSTER TWSP TD 69~
000491700	BENTLEY, JANET R	32-26-6 SE4SW4 39.83 AC CUSTER TWSP TD 69~
000492200	BENTLEY, JANET R	32-26-6 W2W2 162.06 AC CUSTER TWSP TD 69~
000492300	BENTLEY, JANET R	33-26-5 E2NW4 & SW4 EXC NW4SW4 198.44 AC WILLOW TWSP TD 34~
000372700	BERTRAM SHARON	34-26-5 ALL 634.80 AC WILLOW TOWNSHIP TD 36~
000373000	BERTRAM SHARON	10-25-6 S2SE4 82.41 AC NELIGH TWSP TD 62~
000453900	BEVERLY LAND CO A RHODE ISLAND CORP	12-25-6 SW4 156.98 AC NELIGH TWSP TD 62~
000454800	BEVERLY LAND CO A RHODE ISLAND CORP	13-25-6 W2 315.77 AC NELIGH TWSP TD 62~
000455100	BEVERLY LAND CO A RHODE ISLAND CORP	24-25-6 W2 -2 TR NW4NW4 W2SE4 392.6 AC NELIGH TWNSP TD 62~
000470700	BEVERLY LAND CO A RHODE ISLAND CORP	25-25-6 NW4 160.28 AC NELIGH TWSP TD 62~
000470900	BEVERLY LAND CO A RHODE ISLAND CORP	2-25-6 SW4 157.65 AC NELIGH TWSP TD 62~
000449000	BOCHE,MARK K & LUANN K	5-25-6 72.88 AC IRR TRACT E2NE4 NELIGH TWSP TD 62~
000450600	BOOTH HAY COMPANY LLC	29-25-5 SW4 159.38 AC ELM TWSP TD 33~
000354400	BRANDT RANCH INC	30-25-5 NE4NE4 & S2NE4 116.81 AC ELM TWSP TD 33~
000354500	BRANDT RANCH INC	30-25-5 NW4NE4 N2NW4 121.12 AC ELM TWSP TD 24~
000354600	BRANDT RANCH INC	32-25-5 NW1/4 160 AC ELM TOWNSHIP TD 32~
000355500	BRANDT RANCH INC	22-26-7 SE4SE4 37.31 AC BLAINE TWSP TD 105~
000586100	BRIDGE, MERLE D & JOANN L	23-26-7 W2SW4; TRS NE4SW4; NW4SE4 93.79 AC BLAINE TWSP TD 105~~
000587000	BRIDGE, MERLE D & JOANN L	26-26-7 NW4SW4 W2NW4 117.63 AC BLAINE TWSP TD 105~
000588200	BRIDGE, MERLE D & JOANN L	5-25-5 NW4 EXC TR 152.62 AC ELM TWSP TD 29~
000343100	CENTRAL GRAIN INC OF PALMER NE	23-26-6 E2 322.39 AC CUSTER TWSP
000488300	COUTLER, DOUGLAS & PAMELA	3-25-5 W2 317.06 AC ELM TWSP TD 29~
000342600	DINDSAL BROS INC	4-25-5 N2NE4 80.88 AC ELM TWSP TD 29~
000342700	DINDSAL BROS INC	28-26-6 NE4-SE4NE4; NW4-HWY & -TR NW4NW4: NW4SW4-HWY; 305.37 AC~CUSTER TWSP TD 72~
000490000	DOUBLE B TURKEY FARM INC	28-26-6 SE4NE4 39.86 AC CUSTER TWSP TD 69~
000490100	DOUBLE B TURKEY FARM INC	33-26-6 NE4; & NW4SE4 198.94 AC CUSTER TWSP TD 69~
000492400	DOUBLE B TURKEY FARM INC	33-26-6 NE4SE4 41.59 AC CUSTER TWSP TD 69~
000492800	DOUBLE B TURKEY FARM INC	34-26-6 NW4 158.7 AC CUSTER TWSP TD 69~
000493100	DOUBLE B TURKEY FARM INC	30-26-6 S2 316.04 AC CUSTER TWSP TD 72~
000491400	DREDGE,LYLE D & NADINE F Ivg tr	24-26-7 TR NE4 158.81 AC BLAINE TWSP TD 105~
000587200	DWIGHT MORRISON PROPERTIES,LLC	24-26-7 TR SE4 158.06 AC BLAINE TOWNSHIP TD 105~
000347700	EILERS,RICHARD D & MARTHA J	16-25-5 SW1/4 160 AC ELM TOWNSHIP TD 29~
000342400	ELLSWORTH, GUY & CARLA	3-25-5 NE4 157.26 AC ELM TWSP
000343200	ESCRITT,DOROTHY G & VELLA M	5-25-5 SE4 158.13 AC ELM TWSP TD 29~
000349200	ESCRITT,DOROTHY G & VELLA M	20-25-5 NW1/4 & N1/2SW1/4 240 AC ELM TOWNSHIP TD 29~
000355000	EVANS INC	'31-25-5 NE1/4 EXC 5 AC & SE1/4 314.7774 AC ELM TOWNSHIP TD 24~
000355200	EVANS INC	31-25-5 NW4 159.21 AC ELM TWSP TD 24~
000471000	EVANS INC	25-25-6 SE4 156.60 AC NELIGH TWSP TD 62~
000470800	EVANS,JOSEPH T & NANCY M	25-25-6 NE4 154.58 AC NELIGH TWSP TD 62~
000348101	EYMMANN,GORDON K & HELEN A	17-25-5 S 700' NW4SW4 S2SW4 101 AC ELM TOWNSHIP TD 29~
000489500	FORSELL,THOMAS	25-26-6 S2SE4 81.18 AC CUSTER TWNSP TD 75~
000450400	GERALD BAKER INC	4-25-6 SW4 EXC STATE HWY 153.30 AC NELIGH TWSP TD 62~
000491000	GOOD,HARLAN D & SHIRLEY A	29-26-6 SW4 161.83 AC CUSTER TWSP TD 69~
000583000	GOOD,HARLAN D & SHIRLEY A	15-26-7 SE4NE4; SE4-NW4SE4 159.29 AC BLAINE TWSP TD 110~~
000583100	GOOD,HARLAN D & SHIRLEY A	15-26-7 SW4NE4; SW4; NW4SE4 236.53 AC BLAINE TWSP TD 110~
000354300	GROSSERODE,JOSEPH H & MARCELLA A	29-25-5 SE4 160.15 AC ELM TWSP TD 33~
000355400	GROSSERODE,JOSEPH H & MARCELLA A	32-25-5 NE4 158.23 AC ELM TWSP TD 32~
000356000	GROSSERODE,JOSEPH H & MARCELLA A	33-25-5 NW4; & W 2 AC SW4 162.38 AC ELM TWSP TD 32~
000584400	HAUF,LAWRENCE R & ESTHER M	18-26-7 SW4-TR SW4SW4 152.77 AC BLAINE TWSP TD 107~
000489600	HAUPTMAN,LEVERN & JOANN	25-26-6 SW4 161.45 AC CUSTER TWSP TD 72~
000493000	HAUPTMANN,LEVERN & JOANN et al	34-26-6 NE4 158.75 AC CUSTER TWSP TD 69~
000493800	HAUPTMANN,LEVERN & JOANN et al	35-26-6 NW4 SE4 & 20'SQ,TR SW4NE4 321.71 AC CUSTER TWSP TD 69~
000356300	HEITHOFF,STANLEY G & DOROTHY A	33-25-5 SW1/4 LESS W 2 AC FOR ROAD 158 AC ELM TOWNSHIP TD 32~
000368300	HERBERT,DENISE A et al	20-26-5 SW4 159.63 AC WILLOW TOWNSHIP TD 34
000449100	HOFFMAN,DANIEL J & JOAN L	3-25-6 NE4 EXC TR 161.99 AC NELIGH TWSP TD 68
000580700	HOPKINS,ESTHER M	9-26-7 NE4 159.85 AC BLAINE TWSP TD 107~

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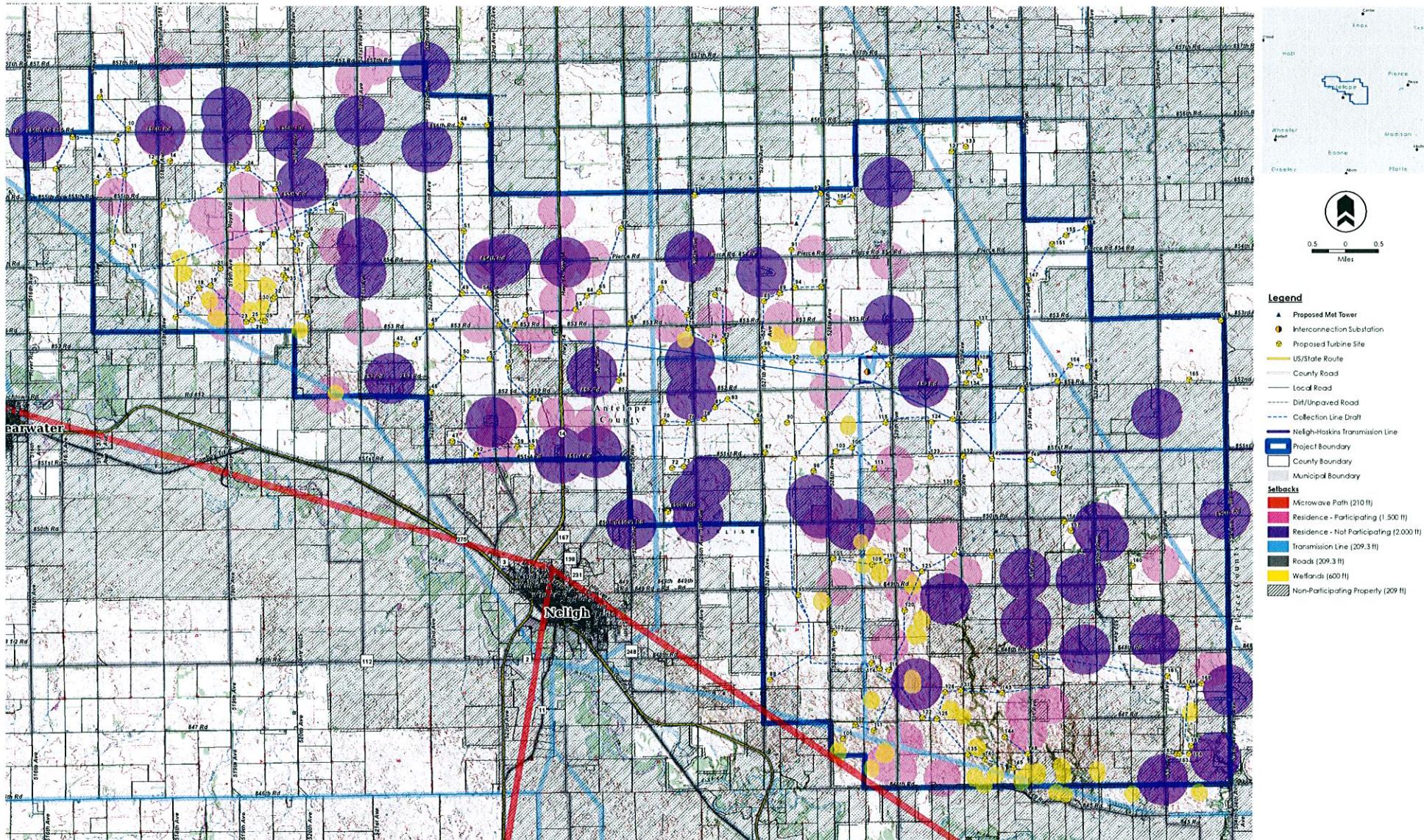
APN	OWNER	LEGAL
00058100	HOPKINS,ESTHER M	9-26-7 N2SE4 80.27 AC BLAINE TWSP TD 107~
00058100	HOPKINS,ESTHER M	9-26-7 S2SE4 80.44 AC BLAINE TWSP TD 107~
00058100	JAEKE,CAROLINE	9-26-7 SW4-SW4SW4 151.87 AC BLAINE TWSP TD 107~
00058400	JAEKE,CAROLINE	17-26-7 SW4 158.88 AC BLAINE TWSP TD 107~
00058500	JAEKE,CAROLINE	20-26-7 E2W2 W2SE4 238.24 AC BLAINE TWSP TD 107~
000589100	JAEKE,CAROLINE	28-26-7 W2W2 163.99 AC BLAINE TWSP TD 107~
000589200	JAEKE,CAROLINE	29-26-7 NE4-SW4NE4 NE4SE4 160.22 AC BLAINE TWSP TD 107~
000344501	JDHI LLC C/O RANDALL J HUPP	9-25-5 NE4 159.83 AC ELM TWSP
000344500	JDHI LLC ETAL C/O RANDALL J HUPP	9-25-5 NW4 159.63 AC ELM TWSP~
000356200	JOHNSON,JERRY C & YVONNE D	33-25-5 SE4SE4 39.79 AC ELM TWSP TD 32~
000488700	JONES,GARY D & DONNA D	23-26-6 SW4 162.09 AC CUSTER TWSP TD 69~
000483300	KALLHOFF,DARELD A rev tr	7-26-6 SE4 157.62 AC CUSTER TWSP TD 69~
000493900	KALLHOFF,DARELD A rev tr	35-26-6 SW4 160.35 AC CUSTER TWSP TD 69~
000489000	KALLHOFF,KENNETH L	24-26-6 NE4 S2 480.08 AC CUSTER TWSP TD 75~
000488900	KALLHOFF,KENNETH L & SUE V	24-26-6 NW4 158.30 AC CUSTER TWSP TD 75~
000488000	KALLHOFF,TIMOTHY J & JANELLE M	22-26-6 SW4 157.35 AC CUSTER TWSP TD 6~
000489900	KALLHOFF,TIMOTHY J & JANELLE M	27-26-6 ALL 633.14 AC CUSTER TWSP TD 69~
000352200	KEE,ROBERT D et al	25-25-5 SW4NW4 40.52 AC ELM TWSP TD 32~
000352600	KEE,ROBERT D et al	25-25-5 SW4 158.04 AC ELM TWSP TD 32~
000357600	KEE,ROGER ALLEN & GERALYN MARIE	36-25-5 E2NW4 79.54 AC ELM TWSP TD 32~
000357900	KEE,ROGER ALLEN & GERALYN MARIE	36-25-5 N 53.33 AC OF SW1/4 53.33 AC ELM TOWNSHIP TD 32~
000485000	KERKMAN,JOHN & LESLIE A	1-25-6 SE4 157.99 AC NELIGH TWSP TD 68~
000344900	KLOEPPER,ELMER W & LEONA M relest tr	10-25-5 NW1/4 160 AC ELM TOWNSHIP TD 29
000353200	KLOEPPER,ELMER W & LEONA M relest tr	27-25-5 NW1/4NW1/4 40 AC ELM TOWNSHIP TD 25
000586500	KNAPP,KEITH R & SUE B	22-26-7 SW4SW4 41.19 AC BLAINE TWSP TD 110~
000586300	KNAPP,ROBERT E & ELIZABETH A	22-26-7 TR NW COR NW4SW4 7.55 AC BLAINE TWSP TD 110~
000586200	KNAPP,ROBERT E & ELIZABETH A et al	22-26-7 N2SW4-TR NW4SW4,W2SE4 155.64 AC BLAINE TWSP TD 110~
000586400	KNAPP,ROBERT E & ELIZABETH A et al	22-26-7 SE4SW4 37.64 AC BLAINE TWSP TD 110~
000580500	KOENIG,JAMES T & KATHRYN E	8-26-7 SE4 159.13 AC BLAINE TWSP TD 107~
000585700	KOENIG,JAMES T & KATHRYN E	21-26-7 ALL 643.59 AC BLAINE TWSP TD 111~
000586600	KOENIG,JAMES T & KATHRYN E	23-26-7 NE4-SW4NE4;NE4SE4 155.02 AC BLAINE TWSP TD 105~
000588800	KOENIG,JAMES T & KATHRYN E	28-26-7 NE4-E2NW4;NE4SW4;NW4SE4 319.31 AC BLAINE TWSP TD 107~
000371800	KORTH,ALLEN D & LUCILLE I	31-26-5 NE4 E2NW4 241.01 AC WILLOW TWSP TD 34~
000582900	KREBS,SHANE & REGINA	15-26-7 N2NE4 EX TR 77.36 AC BLAINE TWSP
000582700	KREBS,SHANE & REGINA	14-26-7 N2NW4 79.49 AC BLAINE TWSP
000343900	MARSH,MELVIN D & RUTH D	7-25-5 NW4 153.15 AC ELM TWSP TD 24~
000354900	MARTENSEN,DEANNA LEE	30-25-5 155 AC IN SW1/4 156.82 AC ELM TOWNSHIP TD 24
000354100	MARTENSEN,RICHARD P & DEANNA LEE	29-25-5 NE4 159.15 AC ELM TWSP TD 24~
000343700	MAUGHAN,FRANKIE & SANDRA LEE	7-25-5 N2NE4 79.20 AC ELM TWSP TD 29~
000344200	MAUGHAN,FRANKIE & SANDRA LEE	8-25-5 N1/2 320 AC ELM TOWNSHIP TD 29
000372900	MAUGHAN,FRANKIE & SANDRA LEE	33-26-5 NE4SE4 39.77 AC WILLOW TOWNSHIP TD 34~
000448700	MERIT PROPERTIES	1-25-6 W2 315.49 AC NELIGH TWSP TD 68~
000454000	MERIT PROPERTIES PARTNERSHIP	10-25-6 SW4 EXC TRACT 409'X53' IN SW CORNER 157.5AC NELIGH TWSP~TD 62~
000588900	MILLER,JOYCE M & KEVIN C	28-26-7 TR SE4SE4 1.23 AC BLAINE TWSP TD 107~
000486500	MILLER,LEONARD	18-26-6 NE4 157.29 AC CUSTER TWSP TD 69~
000491100	MILLER,LEONARD & ANITA L	30-26-6 NE4 EXC TRI TR IN NE4NE4 151.93 AC CUSTER TWSP TD 69~
000450900	MILLER,LEONARD L	5-25-6 SE4 2.67 AC FOR HWY & EXC TRACTS SE4SE4 150.15 AC~NELIGH TWSP TD 62~
000486900	MILLER,LYLE K & LENA	19-26-6 E2 316.55 AC CUSTER TWSP TD 69~
000348900	MITCHELL,LAVERN & STACEY	19-25-5 S1/2SE1/4; & 1 AC IN N1/2SE1/4 81 AC ELM TOWNSHIP TD 24
000349300	MITCHELL,LAVERN & STACEY	20-25-5 S2SW4 82.63 AC ELM TWSP TD 24~
000354200	MITCHELL,LAVERN & STACEY	29-25-5 NW4/4 EX TR 325'X504' IN SE4NW4/4 156.24 AC ELM TWSP TD 24~
000582400	MORRISON,BRETT M	13-26-7 SE4 159.23 AC BLAINE TWSP TD 105~
000582000	MORRISON,DWIGHT	11-26-7 SW4 158.97 AC BLAINE TWSP TD 105~
000581500	MORRISON,DWIGHT & DARLENE et al	10-26-7 SE4 157.31 AC BLAINE TWSP TD 111A~
000487000	MORRISON,FRANK C	19-26-6 NW4 158 AC CUSTER TWSP TD 72~
000580300	MORRISON,FRANK C	8-26-7 W2NE4,E2NW4 157.16 AC BLAINE TWSP TD 107~
000580900	MORRISON,FRANK C	9-26-7 NW4-5.92 AC TR NW COR 154.10 AC BLAINE TWSP TD 107~
000581800	MORRISON,FRANK C	11-26-7 NW4 159.27 AC BLAINE TWSP TD 105~
000587700	MORRISON,FRANK C	25-26-7 S2 316.94 AC BLAINE TWSP TD 105~
000487100	MORRISON,FRANK C & LYNN H	19-26-6 SW4 158.73 AC CUSTER TWSP TD 72~
000371400	MULLINS,GREG	29-26-5 SW4 EXC TR 159.83 AC WILLOW TOWNSHIP TD 34
000588400	OLSON,ALVIN & JANIE	27-26-7 NE4 NE4NW4 NW4SE4 237.86 AC BLAINE TWSP TD 110~
000593200	OLSON,ALVIN & JANIE	35-26-7 E2 317.17 AC BLAINE TWSP TD 106~
000588500	OLSON,DAN	27-26-7 SE4NW4 SW4-NW4SW4 157.62 AC BLAINE TWSP TD 105~
000593400	OLSON,DAN	35-26-7 NW4NW4 38.46 AC BLAINE TWSP TD 106~
000588600	OLSON,DAN & MARISSA	27-26-7 W2NW4 NW4SW4 124.50 AC BLAINE TWSP TD 110~
000589001	OLSON,DAN & MARISSA	28-26-7 NE4SE4 39.63 AC BLAINE TWSP TD 107~
000589000	OLSON,STEVE K & JOANN M	28-26-7 SE4SW4 S2SE4-1.23 AC TR SE4SE4 117.49 AC BLAINE TWSP~
000352500	PETERSEN,STANLEY R et al	25-25-5 S1/2N1/2SE1/4 40 AC ELM TOWNSHIP TD 32
000367700	PETERSON,KAREN K et al	19-26-5 NW4 78.89 AC WILLOW TOWNSHIP TD 34
000372400	PETERSON,KAREN K et al	32-26-5 SE4 159.49 AC WILLOW TOWNSHIP TD 34
000450000	PETERSON,KEITH L rev tr et al	4-25-6 N2NW4 EXC ST HWY 76.66 AC NELIGH TWSP TD 62~
000450100	PETERSON,KEITH L rev tr et al	4-25-6 S2NW4 EXC HWY 14 70.57 AC NELIGH TWSP TD 62~
000342800	PINNACLE BANCORP INC OSCEOLA INSURANCE INC	4-25-5 S2NE4 & S2 394.12 AC ELM TWSP TD 29~
000343000	PINNACLE BANCORP INC OSCEOLA INSURANCE INC	5-25-5 NE4 EXC TR 152.71 AC ELM TWSP TD 29
000448800	RAINBOW FARMS INC	2-25-6 N 2 316.99 AC NELIGH TWSP TD 68~
000487200	REINKE,DALE F	20-26-6 NE4 EXC 3.86 AC HWY E2NW4 234.64 AC CUSTER TWSP TD 6~9~
000454600	RICE FAMILY LTD PARTNERSHIP	12-25-6 NW4 157.66 AC NELIGH TWSP TD 62~
000348400	RICE FAMILY LTD PRTNRSHP,A & M	18-25-5 SE4 160.70 AC ELM TWSP TD 29~
000493500	RICE,DEBORAH ANN	34-26-6 SW4 159.05 AC CUSTER TWSP TD 69~
000492900	RICE,RONALD R	33-26-6 SE4SE4 39.76 AC CUSTER TWSP TD 69~
000470400	RICE,RONALD ROY & DEBORAH ANN	24-25-6 NE4 156.23 AC NELIGH TWSP TD 62~
000581700	RODGERS,BOBBY tre et al	11-26-7 NE4 159.41 AC BLAINE TWSP TD 105~
000582100	RODGERS,ROY L & BETTY J	12-26-7 N2NE4 NW4 241.21 AC BLAINE TWSP TD 105~
000583900	RUDLOFF,PAUL & PAMELA	17-26-7 SE4 159.10 AC BLAINE TWSP TD 107~
000489800	SANDS,MARVIN E & MARILYN E	26-26-6 E2SW4 81.25 AC CUSTER TWSP TD 75~
000351900	SANNE FARMS LLC	25-25-5 N4 EXC 1.28 AC TRACT N2N2SE4 EXC .95 AC TRACT SE4 197.77 A ELM TOWNSHIP TD 32
000352000	SANNE REPAIR LLC	25-25-5 TRACT IN NW4SE4NE4 1.28 AC ELM TOWNSHIP TD 32 RPR SHOP
000454501	SAUSER,EDWARD F & KATHERINE A rev liv tr	12-25-6 NE4 157.47 AC NELIGH TWSP TD 62~
000344700	SAUSER,VINCENT H & SHARON K	9-25-5 SW1/4 160 AC ELM TOWNSHIP TD 29
000486800	SCHACHT,GENE A & CAROL	18-26-6 SW4 157.58 AC CUSTER TWSP TD 69~
000582500	SCHACHT,GENE A & CAROL	13-26-7 SW4 159.64 AC BLAINE TWSP TD 105~
000582800	SCHACHT,GENE A & CAROL	14-26-7 SE4 157.80 AC BLAINE TWSP TD 105~
000583700	SCHACHT,GENE A & CAROL	17-26-7 NE4 159.02 AC BLAINE TWSP TD 107~
000490300	SCHRADER,DAVID C	28-26-6 S2SE4 79.96 AC CUSTER TWSP TD 69~

APN	OWNER	LEGAL
000367800	SCHRADER,DAVID C & LORI L	19-26-5 S2NW4 & N2SW4 156.92 AC WILLOW TOWNSHIP TD 34
000448900	SCHRADER,DAVID C & LORI L	2-25-6 SE4 157.2 AC NEIGH TWSP TD 62~
000489100	SCHRADER,DAVID C & LORI L	25-26-6 NE4 156.64 AC CUSTER TWSP TD 72~
000489301	SCHRADER,DAVID C & LORI L	25-26-6 NW4 -IREG TR NW4NW4 151.42 AC CUSTER TWSP TD 75~
000489700	SCHRADER,DAVID C & LORI L	26-26-6 E2 317.20 AC CUSTER TWNSP TD 75~
000490600	SCHRADER,DAVID C & LORI L	29-26-6 S2NE4 & N2SE4 - HWY 155.91 AC CUSTER TWSP TD 69~
000490900	SCHRADER,DAVID C & LORI L	29-26-6 SW4SE4 39.89 AC CUSTER TWSP TD 69~
000491800	SCHRADER,DAVID C & LORI L	32-26-6 NE4 - 3.12 AC TR,NE4SW4 189.93 AC CUSTER TWSP TD 112~~
000343500	SCHRADER,RICHARD C	6-25-5 NW4 155.39 AC ELM TWSP TD 29~
000372000	SCHRADER,RICHARD C	31-26-5 S2 312.43 AC WILLOW TOWNSHIP TD 34
000448501	SCHRADER,RICHARD C	1-25-6 NE4 EXC STRIP NE4NE4 156.92 AC NEIGH TWSP TD 68~
000490400	SCHRADER,THOMAS E & ALICE ELAINE	28-26-6 SW4SW4 E2SW4 & N2SE4 EXC 1.51 AC HWY 197.76 AC CUSTER TWSP~
000490800	SCHRADER,THOMAS E & ALICE ELAINE	29-26-6 S4SE4 36.95 AC CUSTER TWSP TD 69
000492500	SCHRADER,THOMAS E & ALICE ELAINE	33-26-6 N2NW4 75.72 AC CUSTER TWSP TD 69
000491300	SCHULTZ,FREDERICK T & KATHLEEN J	30-26-6 NW4 158.61 AC CUSTER TWSP TD 69~
000580600	SCHULTZ,FREDERICK T & KATHLEEN J	8-26-7 SW4 159.08 AC BLAINE TWSP TD 107~
000583800	SCHULTZ,FREDERICK T & KATHLEEN J	17-26-7 NW4 158.97 AC BLAINE TWSP TD 107~
000585800	SCHULTZ,FREDERICK T & KATHLEEN J	22-26-7 E2NE4,NE4SE4 116.42 AC BLAINE TWSP TD 110~
000586000	SCHULTZ,FREDERICK T & KATHLEEN J	22-26-7 W2NW4 84.05 AC BLAINE TWSP TD 110~
000586800	SCHULTZ,FREDERICK T & KATHLEEN J	23-26-7 NW4- SE4NW4 117.52 AC BLAINE TWSP TD 110~
000588300	SCHULTZ,FREDERICK T & KATHLEEN J	26-26-7 SW4SW4 39.06 AC BLAINE TWSP TD 110A~
000588700	SCHULTZ,FREDERICK T & KATHLEEN J	27-26-7 S4-E-NW4SE4 120.28 AC BLAINE TWSP TD 110A~
000585900	SCHULTZ,FREDERICK T & THOMAS J	22-26-7 W2NE4 & E2NW4 154.97 AC BLAINE TWSP TD 110~
000584100	SCOTT,JAMES T tr	18-26-7 NE4NE4 39.61 AC BLAINE TWSP TD 107~
000580400	SEIER,SHAWN M	8-26-7 W2NW4 79.58 AC BLAINE TWSP TD 107~
000347800	SHABRAM,TROY & BOBIE	17-25-5 NE1/4 160 AC ELM TOWNSHIP TD 29
000345400	SHERMER,ACE E & THERESA	11-25-5 SW4 163.68 AC ELM TWSP TD 32~
000346900	SHERMER,ACE E & THERESA	15-25-5 NE4 159.18 AC ELM TWSP TD 28~
000583200	SNODGRASS,RONALD	15-26-7 NW4-TR NW4NW4 149.60 AC BLAINE TWSP TD 105~
000344100	SPOHOWER,RAMONA G	7-25-5 SW4 152.61 AC ELM TWSP TD 24~
000356100	SPULAK,ROGER & JANET	33-25-5 S4 EXC SE4SE4 120 AC ELM TOWNSHIP TD 32
000354000	SPULAK,RUDY E & IRENE K	28-25-5 S1/2SE1/4 80.40 AC ELM TOWNSHIP TD 32
000366500	STATE OF NEBRASKA BOARD OF ED LANDS & FUNDS	16-26-5 W2NW4 79.71 AC WILLOW TWSP TD 34~
000365601	STATE OF NEBRASKA BOARD OF ED LANDS & FUNDS	16-26-5 SW4SE4 39.82 AC WILLOW TWSP TD 34~
000373200	STATE OF NEBRASKA BOARD OF ED LANDS & FUNDS	36-26-5 ALL 640.93 AC WILLOW TWNSP TD 36~
000494000	STATE OF NEBRASKA BOARD OF ED LANDS & FUNDS	36-26-6 N2NE4 79.82 AC CUSTER TWSP TD 75~
000494002	STATE OF NEBRASKA BOARD OF ED LANDS & FUNDS	36-26-6 NW4 S2NE4 239.68 AC CUSTER TWSP TD 75~
000494003	STATE OF NEBRASKA BOARD OF ED LANDS & FUNDS	36-26-6 SE4 159.57 AC CUSTER TWSP TD 75~
000583400	STATE OF NEBRASKA BOARD OF ED LANDS & FUNDS	16-26-7 N2NE4 80.77 AC BLAINE TWSP TD 105~
000583401	STATE OF NEBRASKA BOARD OF ED LANDS & FUNDS	16-26-7 S4 163.92 AC BLAINE TWSP TD 105~
000583402	STATE OF NEBRASKA BOARD OF ED LANDS & FUNDS	16-26-7 S2NE4 80.35 AC BLAINE TWSP TD 106~
000583403	STATE OF NEBRASKA BOARD OF ED LANDS & FUNDS	16-26-7 NW4 159.48 AC BLAINE TWSP TD 106~
000593700	STATE OF NEBRASKA BOARD OF ED LANDS & FUNDS	36-26-7 NE4 & NE4SE4 197.50 AC BLAINE TWSP TD 105~
000593701	STATE OF NEBRASKA BOARD OF ED LANDS & FUNDS	36-26-7 NW4 157.61 AC BLAINE TWSP TD 105~
000355900	STINEMAN,JOHN D AND KANDACE G	33-25-5 NE1/4 160 AC ELM TOWNSHIP TD 32
000371600	SUNSET FARMS INC	30-26-5 NW4 W2SW4 232.18 AC WILLOW TWSP TD 34~
000371900	SUNSET FARMS INC	31-26-5 W2NW4 77.67 AC WILLOW TOWNSHIP TD 34
000346300	TAAKE,GARY R & KATHLEEN E	13-25-5 S1/2NW1/4 & SW1/4 240 AC ELM TOWNSHIP TD 25
000346700	TAAKE,GARY R & KATHLEEN E	14-25-5 SE1/4 160 AC ELM TOWNSHIP TD 25
000350500	TAAKE,GARY R & KATHLEEN E	23-25-5 N1/2NE1/4 EXC 1 AC FOR CEMETERY 79 AC ELM TOWNSHIP TD 25
000367200	TABER FAMILY INC	18-26-5 NE4 158.15 AC WILLOW TWSP TD 34~
000589500	THIELE REVOCABLE TRUST	29-26-7 SW4NW4 40.17 AC BLAINE TWSP TD 107~
000584301	THIELE,FREDERIC J & DEBRA J	18-26-7 W2NE4 & E2NW4 158.71 AC BLAINE TWSP TD 107~
000353300	TIMPERLEY,LLOYD W & LEONA F rev tr	27-25-5 SE1/4NW1/4 40 AC ELM TOWNSHIP TD 32
000353600	TIMPERLEY,LLOYD W & LEONA F rev tr	27-25-5 N2SW4 SE4SW4 120 AC ELM TOWNSHIP TD 32
000353900	TIMPERLEY,LLOYD W & LEONA F rev tr	28-25-5 S1/2 EXC S1/2SE1/4 240 AC ELM TOWNSHIP TD 32
000356600	TIMPERLEY,LLOYD W & LEONA F rev tr	34-25-5 NW1/4 160 AC ELM TOWNSHIP TD 32
000369100	TODDS LANDMARK FARMS INC	22-26-5 S2 317.11 AC WILLOW TWSP TD 36~
000370700	TODDS LANDMARK FARMS INC	27-26-5 N2NE4 20.77 AC SE4NW4 W2SW4 292.40 AC WILLOW TWSP TD 36
000343400	TREE CORNERS FARM LLC	6-25-5 NE4 157.38 AC ELM TOWNSHIP TD 29
000343600	TREE CORNERS FARM LLC	6-25-5 S2 315.87 AC ELM TOWNSHIP TD 29
000371500	TREE CORNERS FARM LLC	30-26-5 E2SW4 E2 LESS TR 392.24 AC WILLOW TOWNSHIP TD 34
000489400	TREE CORNERS FARM LLC	25-26-6 N2SE4 77.86 AC CUSTER TWSP TD 75~
000451400	VOBORNY,BERNARD C & ROZELLA	5-25-6 S2SW4 79.96 AC NEIGH TWSP TD 62~
000451401	VOBORNY,BERNARD C & ROZELLA	5-25-6 S2SV4 79.96 AC NEIGH TWSP TD 62~
000488400	WAGNER,JUDY M	23-26-6 NW4 160.29 AC CUSTER TWSP TD 69~
000352700	WEBER, RONALD	26-25-5 NE4 159.30 AC ELM TWSP
000352800	WEBER, RONALD	26-25-5 NW4 159.19 AC ELM TWSP
000353100	WEBER, RONALD	27-25-5 NE4 NE4NW4 EX TR 191.18 AC ELM TWSP
000355800	WEBER, RONALD	32-25-5 SW4; W66' SE4 160.67 AC ELM TWSP
000355600	WEBER, RONALD	32-25-5 SE4 EX W 66'& EX TR 157.76 AC ELM TWSP
000366700	YOUNG FAMILY LLC	17-26-5 NE4 N2SE4 239.85 AC WILLOW TWSP TD 34~

Adjacent Properties

APN	OWNER	LEGAL
000318000	RUTJENS,DONALD J & LAURA	1-24-5 N2 EX 4.91 AC TR SE4NE4 290.63 AC BURNETT TWNSP TD 23~~
000319200	UNSEL,CHRIS A & KELLI J	2-24-5 NW4 EXCT TRACT S OF ROAD & EXCL RECT TRACT S2NW4 120 AC BURNETT TOWNSHIP
000319900	JOHNSON,JERRY C & YVONNE D	4-24-5 NE4NE4 LYING NORTH OF ROAD 17.11 AC BURNETT TWSP TD 23~
000321600	GROSSERODE,JOSEPH H & MARCELLA A	5-24-5 E2NW4 -TRACT 40'X190'NE4NW4 78.94 AC BURNETT TWSP TD 16~
000322000	EVANS INC	6-24-5 W2NE4 80.97 AC BURNETT TWSP TD 19~
000355300	MARTENSEN,RICHARD P & DEANNA LEE	31-25-5 SW1/4 160.64 AC ELM TOWNSHIP TD 24
000361700	TABER FAMILY INC	7-26-5 SE4 157 AC WILLOW TWSP TD 37~
000365800	YOUNG,ROLAND E & HELEN L	15-26-5 NW4 EXC TRACT 134.28 AC WILLOW TOWNSHIP TD 35
000367500	ZUHLKE,EUGENE C & DEBORAH R	18-26-5 SW4 155.08 AC WILLOW TOWNSHIP TD 34
000452600	SCHRADER,DAVID C & LORI L	8-25-6 NE4 EXC STATE HWY 151.15 AC NEIGH TWSP TD 62~
000452700	VOBORNY,BERNARD C & ROZELLA	8-25-6 N2NW4 & SW4NW4 EXC IRR TR IN W2NW4 ALONG CO RD 116.05 AC~NEIGH TWSP TD 62~
000453100	BEVERLY LAND CO A RHODE ISLAND CORP	9-25-6 NE4 159.18 AC NEIGH TWSP TD 62~
000453200	BALTIC AMERICAN LAND COMPANY	9-25-6 NW4 -4.92 AC ST HWY 8 & -2.25 AC TRACT SW4NW4 151.76 AC NEIGH~TWSP TD 62~
000455200	BEVERLY LAND CO A RHODE ISLAND CORP	14-25-6 N2 316.59 AC NEIGH TWSP TD 62~
000455300	RAINBOW FARMS INC	14-25-6 SE4 158.76 AC NEIGH TWSP TD 62~
000455500	BEVERLY LAND CO A RHODE ISLAND CORP	15-25-6 N2 322.09 AC NEIGH TWSP TD 62~
000471300	RICE FAMILY LTD PTNRSHIP,A & M	26-25-6 S2NE4 & 138.089 AC NW4 217.56 AC NEIGH TWSP TD 62~

APN	OWNER	LEGAL
000471500	WRIGHT,FREDERICK	26-25-6 S252 158.65 AC NELIGH TWSP TD 62~
000471600	RICE FAMILY LTD PRTNRSHP,A & M	26-25-6 N25E4 79.32 AC NELIGH TWSP TD 62~
000485600	REINKE,KENNY D	15-26-6 SE4 EXC 1000'X 450' TR IN NE4SE4 146.32 AC CUSTER TWSP TD 69~
000486000	STATE OF NEBRASKA BOARD OF ED LANDS & FUNDS	16-26-6 NW4NE4 S2NE4 W2 SE4 EXC 8.67 AC HWY 592.69 AC CUSTER TWSP~TD 69~
000563601	OLSON,ALVIN & JANIE	1-25-7 W2NW4 76.79 AC ORD TWSP
000563800	OLSON,ALVIN & JANIE	2-25-7 NE4 154.36 AC ORD TWSP
000578200	MORRISON,FRANK	1-26-7 SE4 159.92 AC BLAINE TWSP TD 105~
000578300	GRO LLC	1-26-7 SW4 -E2SW4SW4 140.34 AC BLAINE TWSP TD 105~
000578400	RODGERS,BOBBY tre et al	1-26-7 E2SW4SW4 20 AC BLAINE TWSP TD 105~
000579400	TINSLEY FARMS INC,A C	5-26-7 N2 SE4 478.82 AC BLAINE TWSP TD 107~
000579500	SCOTT,JAMES T tr	5-26-7 SW4 160.56 AC BLAINE TWSP TD 107~
000579900	SCOTT,CLARABEL tr	7-26-7 E2 317 AC BLAINE TWSP TD 107~
000590000	THIELE REVOCABLE TRUST	30-26-7 S2NE4,N2SE4 159.96 AC BLAINE TWSP TD 107~
000592100	OLSON,ALVIN & JANIE	33-26-7 NE4 158.01 AC BLAINE TWSP TD 107~
000592300	OLSON,STEVE K & JOANN M	33-26-7 NE4NW4 39.88 AC BLAINE TWSP TD 107~
000592600	OLSON,DAN	34-26-7 NE4-SE4NE4 120.60 AC BLAINE TWSP TD 106~
000592800	SIEMS,ROBERT FARMS INC	34-26-7 NW4-TR SW4NW4 157.75 AC BLAINE TWSP TD 106~
000684100	THIELE,FREDERIC J & DEBRA J	13-26-8 SE4-TR 155.79 AC FRENCHTOWN TWNSP
000684101	THIELE,CURT et al	13-26-8 NE4 160.82 AC FRENCHTOWN TWNSP
700033544	STELLING LIVING TRUST	
700033894	OLSON ROBERT L SR & PHYLLIS J OLSON & FAMILY PARTN	
700034181	KEE ROBERT D & SHERLENE A	
700034545	PETERSEN SUE L	



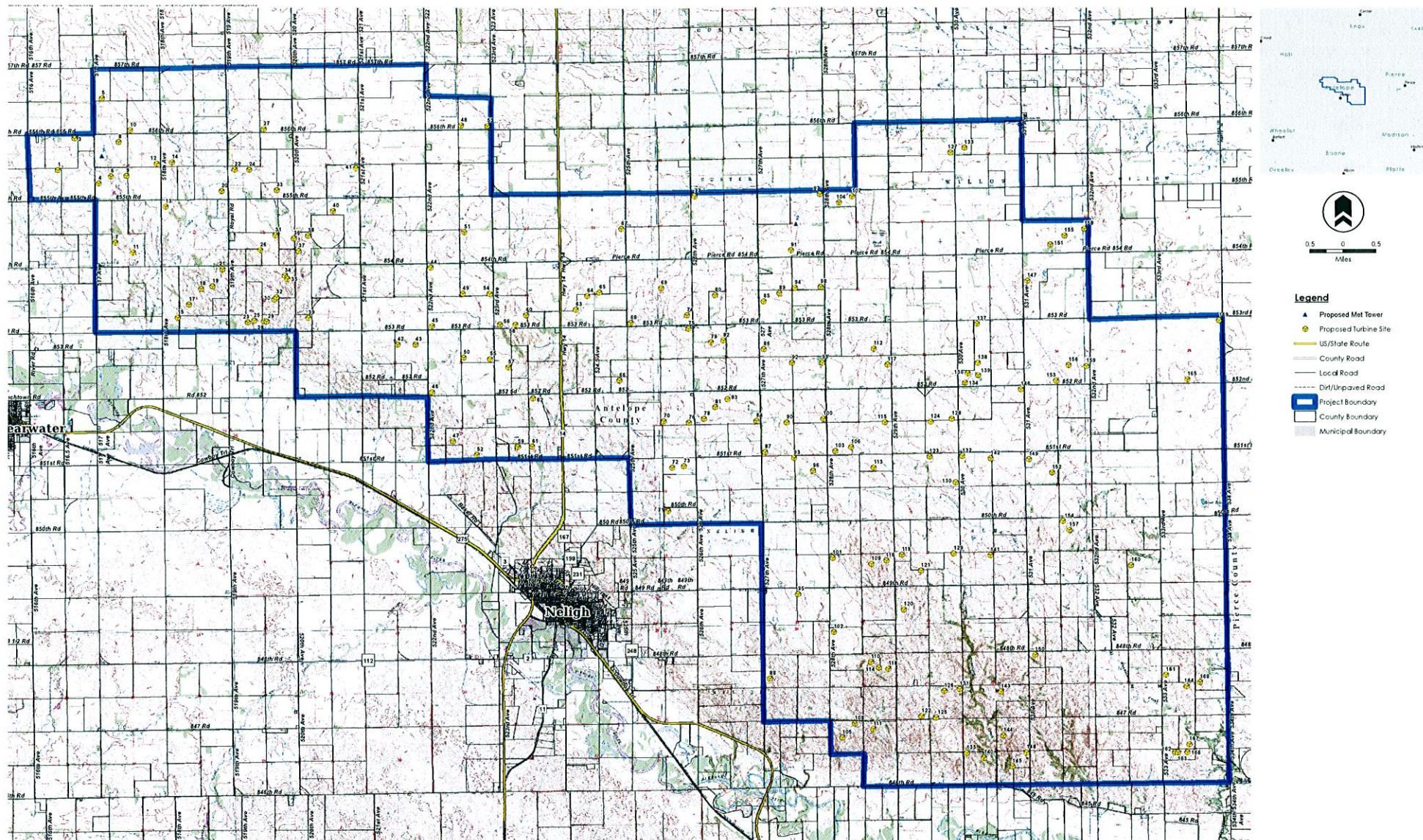
Upstream Parcel Summary Map

Upstream Wind Energy Project | Antelope-Pierce-Madison Counties, Nebraska

Rev. 05
April 12, 2016



received
4-12-16



Turbine Layout Summary

Upstream Wind Energy Project | Antelope-Pierce-Madison Counties, Nebraska

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April 12, 2016



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4-12-16

Wind Power GeoPlanner™

Microwave Study

Upstream Wind Farm



Prepared on Behalf of
Upstream Wind Energy
LLC

April 8, 2016

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4-12-16


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1. Introduction

Microwave bands that may be affected by the installation of wind turbine facilities operate over a wide frequency range (900 MHz – 23 GHz). Comsearch has developed and maintains comprehensive technical databases containing information on licensed microwave networks throughout the United States. These systems are the telecommunication backbone of the country, providing long-distance and local telephone service, backhaul for cellular and personal communication service, data interconnects for mainframe computers and the Internet, network controls for utilities and railroads, and various video services. This report focuses on the potential impact of wind turbines on licensed, proposed and applied non-federal government microwave systems

2. Project Overview

Project Information

Name: Upstream Wind Farm

Number of Turbines: 168

County: Antelope, Pierce and Madison

Blade Diameter: 116 meters

State: Nebraska

Hub Height: 80 meters

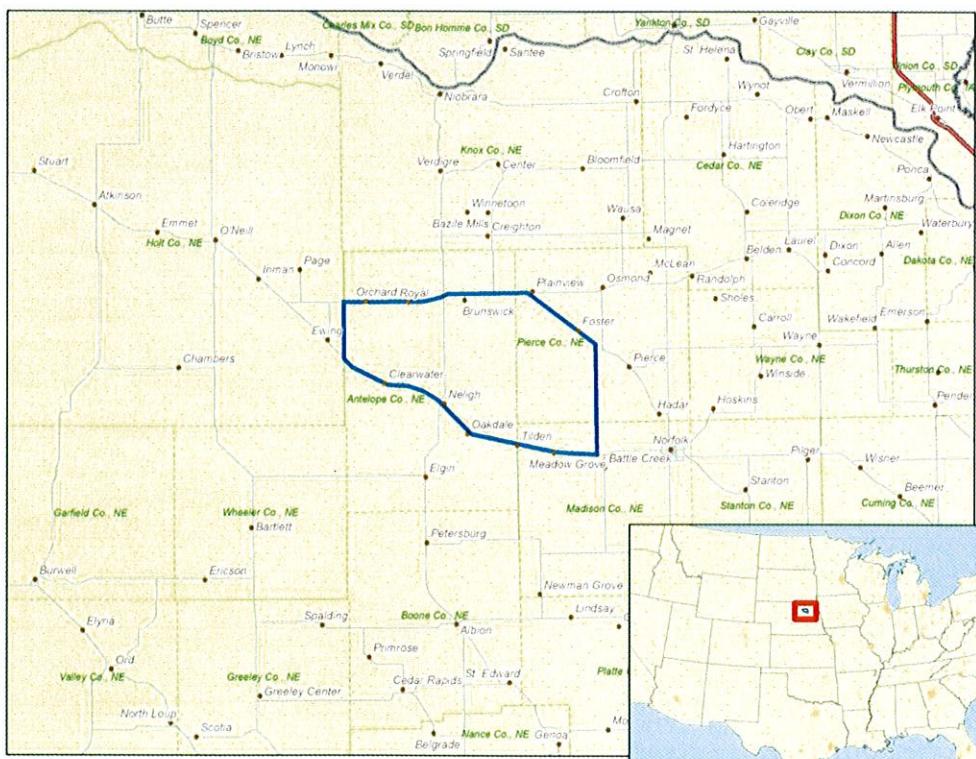


Figure 1: Area of Interest

3. Fresnel Zone Analysis

Methodology

Our obstruction analysis was performed using Comsearch's proprietary microwave database, which contains all non-government licensed, proposed and applied paths from 0.9 - 23 GHz¹. First, we determined all microwave paths that intersect the area of interest² and listed them in Table 1. These paths and the area of interest that encompasses the planned turbine locations are shown in Figure 2.

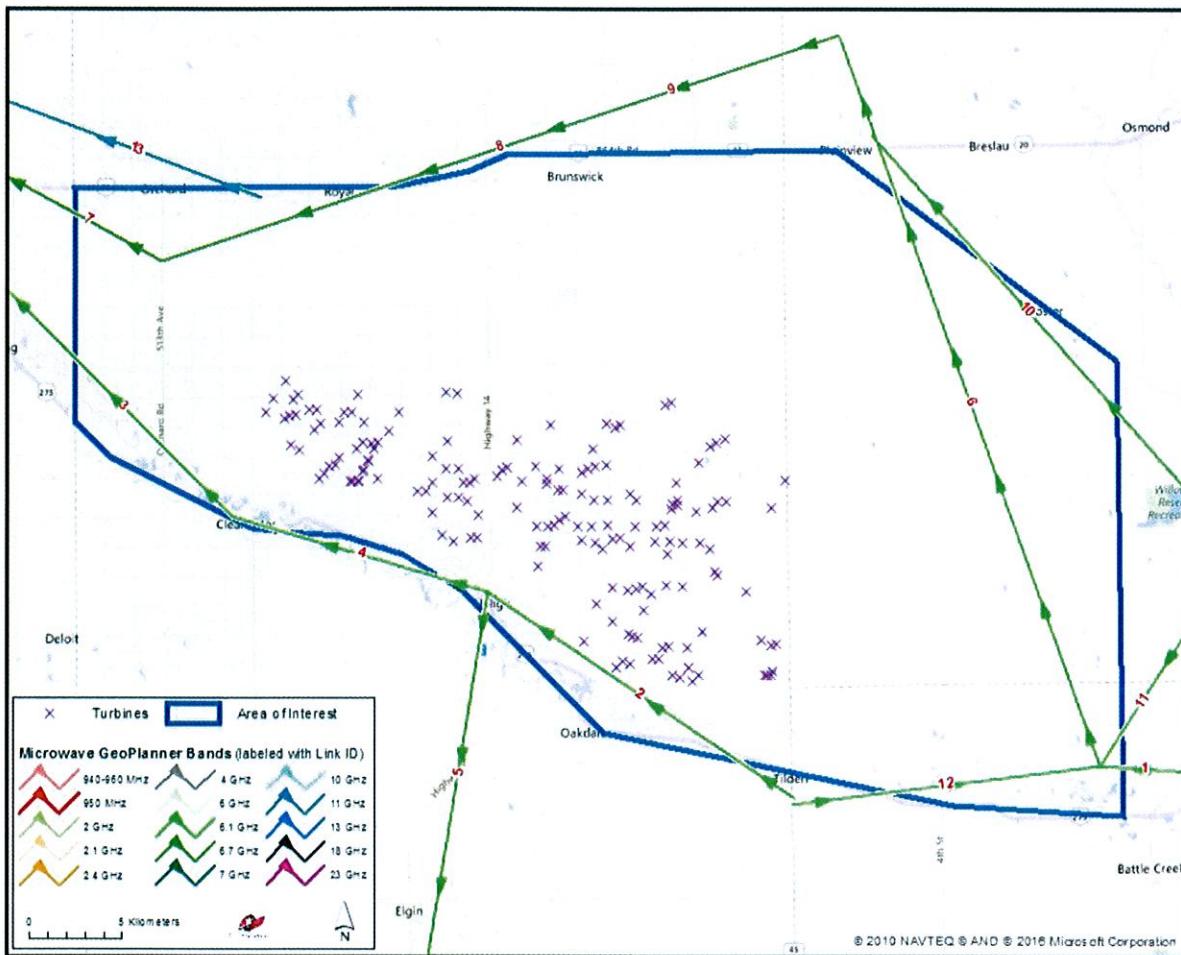


Figure 2: Microwave Paths that Intersect the Area of Interest

¹ Please note that this analysis does not include unlicensed microwave paths or federal government paths that are not registered with the FCC.

² We use FCC-licensed coordinates to determine which paths intersect the area of interest. It is possible that as-built coordinates may differ slightly from those on the FCC license.

ID	Status	Callsign 1	Callsign 2	Band	Path Length (km)	Licensee
1	Licensed	WLS717	WQHL901	6.1 GHz	25.61	USCOC Nebraska/Kansas, LLC
2	Licensed	WQFW791	WQFW794	6.1 GHz	19.94	NE Colorado Cellular, Inc.
3	Licensed	WQFW792	WQFW793	6.1 GHz	22.69	NE Colorado Cellular, Inc.
4	Licensed	WQFW794	WQFW792	6.1 GHz	14.38	NE Colorado Cellular, Inc.
5	Licensed	WQFW794	WQUJ209	6.1 GHz	21.12	NE Colorado Cellular, Inc.
6	Licensed	WQHL901	WQHL905	6.1 GHz	41.77	USCOC Nebraska/Kansas, LLC
7	Licensed	WQHL902	WQHL903	6.7 GHz	35.75	USCOC Nebraska/Kansas, LLC
8, 9	Licensed	WQHL905	WQHL902	6.1 GHz	38.58	USCOC Nebraska/Kansas, LLC
10	Licensed	WQJG544	WQJG545	6.1 GHz	28.39	NE Colorado Cellular, Inc.
11	Licensed	WQKA254	WQHL901	6.1 GHz	15.77	USCOC Nebraska/Kansas, LLC
12	Licensed	WQSY524	WQHL901	6.1 GHz	16.72	USCOC Nebraska/Kansas, LLC
13	Licensed	WQWN773	WQWN774	11 GHz	21.34	Central Valley AG Cooperative

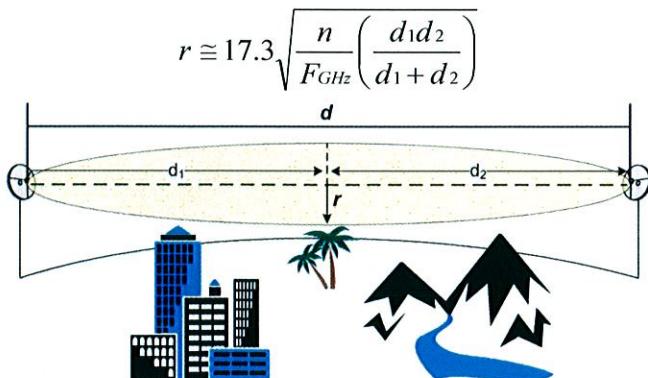
Table 1: Summary of Microwave Paths that Intersect the Area of Interest

(See enclosed *mw_geopl.xlsx* for more information and
GP_dict_matrix_description.xls for detailed field descriptions)

Verification of Coordinate Accuracy

It is possible that as-built coordinates may differ from those on the FCC license. For this project, one path crosses within close proximity of the proposed turbines and the tower locations for this path will have a critical impact on the result. Therefore, we verified these locations using aerial photography and they were found to be accurate..

Next, we calculated a Fresnel Zone for each path based on the following formula:



Where,

- r = Fresnel Zone radius at a specific point in the microwave path, meters
- n = Fresnel Zone number, 1
- F_{GHz} = Frequency of microwave system, GHz
- d₁ = Distance from antenna 1 to a specific point in the microwave path, kilometers
- d₂ = Distance from antenna 2 to a specific point in the microwave path, kilometers

In general, this is the area where the planned wind turbines should be avoided, if possible. A depiction of the Fresnel Zones for each microwave path listed can be found in Figure 3, and is also included in the enclosed shapefiles^{3,4}.

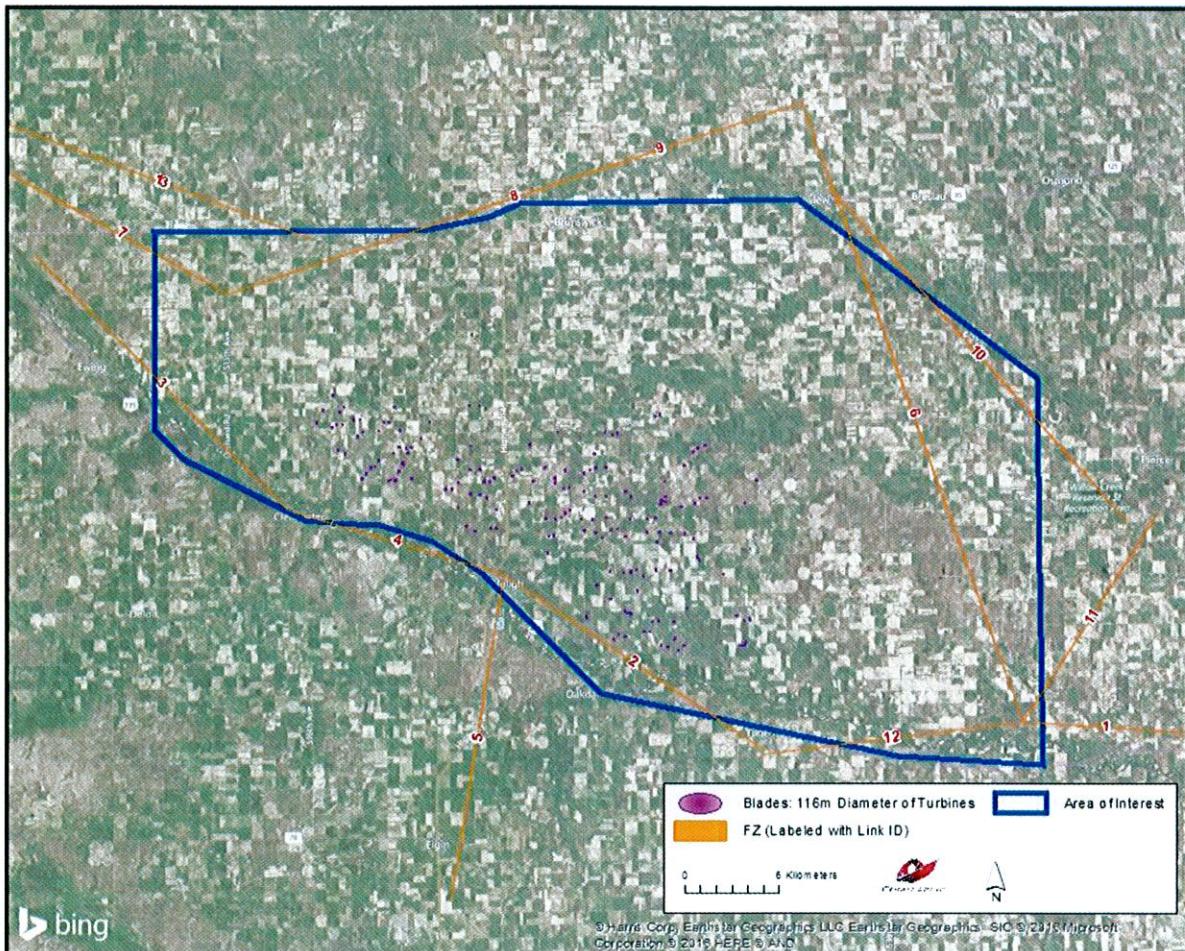


Figure 3: Microwave Paths with Fresnel Zones

³ The ESRI® shapefiles enclosed are in NAD 83 UTM Zone 14 projected coordinate system.

⁴ Comsearch makes no warranty as to the accuracy of the data included in this report beyond the date of the report. The data provided in this report is governed by Comsearch's data license notification and agreement located at http://www.comsearch.com/files/data_license.pdf.

4. Conclusion

Total Microwave Paths	Paths with Affected Fresnel Zones	Total Turbines	Turbines intersecting the Fresnel Zones
13	0	168	0

Table 2: Fresnel Zone Analysis Result

Our study identified 13 microwave paths intersecting the Upstream Wind Farm area of interest. The Fresnel Zones for these microwave paths were calculated and mapped in order to assess the potential impact from the turbines. A total of 168 turbines were considered in the analysis, each with a blade diameter of 116 meters and turbine hub height of 80 meters. Of those turbines, none were found to have potential obstruction with the microwave systems in the area.

5. Contact

For questions or information regarding the Microwave Study, please contact:

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